

The 2018 Scottie



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Packet Three

TOSSUPS

1. **This function is the imaginary part of Euler's formula, and it is multiplied by i in De Moivre's theorem. The Taylor series for this function has only odd powered terms, and its namesake law can be used to find missing triangle side lengths if one (*) side length and the angle measurements are known. This trigonometric function is the reciprocal to the cosecant function. For 10 points, name this trigonometric identity equal to opposite over hypotenuse. (RN)**
ANSWER: sine

2. **An officer's decision to use the Shunpike road instead of the River road was blamed for high casualties in this engagement and negatively impacted the career of that General, Lew Wallace. The highest ranking officer killed in combat in the Civil War, (*) Albert Sidney Johnston, bled to death during this battle. Union forces were able to regroup around Pittsburg Landing after the South spent several hours trying to take the "Hornet's Nest." For 10 points, name this 1862 battle in Tennessee that was considered a victory for Ulysses S. Grant. (TG)**
ANSWER: Battle of Shiloh

3. **One character in this play was named after a seaside resort in Sussex. A servant in this play, who was once married due to a "misunderstanding", prepares cucumber sandwiches, which are eaten before guests arrive. The governess Miss Prism receives a (*) handbag at the end of this play, and Lady Bracknell allows Gwendolen Fairfax to be engaged. Jack Worthing and Algernon Moncrieff both don the title name in, for 10 points, what "trivial comedy" by Oscar Wilde? (GP)**

ANSWER: *The Importance of Being Earnest*

4. **One example of this state is named after Torricelli, and is created by inverting a flask of mercury. A Perkin Triangle is a common setup used in a type of distillation named for these things. This medium has a refractive index of exactly one, and the (*) speed of light in this medium is equal to the constant 3 times 10 to the eighth power meters per second. Space is the most cited example of, for 10 points, what medium characterized by a lack of matter? (MR)**
ANSWER: vacuum

5. **During the premiere of one of this man's operas, the revolt at Kromi scene was removed for political reasons. This composer of the *Songs and Dances of Death* was crushed when Mily Balakirev refused to perform one of his works. An alto saxophone solo was added to the "Old Castle" movement of one work by this man, which also contains an opening (*) Promenade movement and finishes with *The Great Gate of Kiev*. For 10 points, name this Russian composer of *Night on Bald Mountain* and *Pictures at an Exhibition*.(RN)**
ANSWER: Modest Mussorgsky

6. **Two characters in this novel take the healing elixir called the "balms of Firearbras", which causes them to be sick. In this work, a character is told that a wizard has incinerated his library. The titular "ingenious nobleman" travels on (*) Rosinante and persuades his neighbor Sancho Panza to accompany him on his adventures. Windmills are believed to be giants in, for 10 points, what novel by Miguel de Cervantes that sees a man go mad with chivalry? (GP)**
ANSWER: Don Quixote [or *The Ingenious Gentleman Don Quixote of La Mancha*; or *El ingenioso hidalgo Don Quixote de la Mancha*]

7. **Natalie Wood's husband has this first name, and her sister Lana believes that he is responsible for her mysterious death from drowning. The current Special Counsel in charge of investigating Russian interference in the 2016 US Presidential election has this first name, as did the lead singer of (*) Led Zeppelin. A coup d'etat removed a man with this first name from the Zimbabwean presidency after 20 years. For 10 points, RFK Stadium in Washington, D.C. is named after a man with this first name who was the brother of JFK.(TG)**
ANSWER: Robert

8. **This man moved his capital to present-day Qantir, where he could more easily launch his campaigns into Syria. He hosted 14 Sed festivals, more than any other ruler. This man succeeded his father Seti I as pharaoh, and his favorite consort was (*) Nefertari. This pharaoh was involved in the largest chariot battle in history, and he ordered the building of the temples at Abu Simbel. For 10 points, name this New Kingdom pharaoh who defeated the Hittites at the Battle of Kadesh. (PB)**
ANSWER: Ramses II [or Ramses the Great; prompt on just "Ramses"]

9. A character in this novel buries three sacks of gold for men who brought her a statue of Saint Joseph. Seventeen brothers in this novel receive Ash Wednesday crosses that become permanent, and their father builds fishes out of (*) gold in his workshop. A manuscript by Melquiades is deciphered by Aureliano in this novel as a storm destroys the city of Macondo. For 10 points, name this novel about the Buendia family written by Gabriel Garcia Marquez. (GP)

ANSWER: One Hundred Years of Solitude [or Cien Años de Soledad]

10. One of this man's lesser known works depicts a president with orange eyes and blue skin and is titled "Vote McGovern." This artist painted a banana for the cover of the debut album of the Velvet Underground, which they recorded while on this man's Exploding Plastic Inevitable tour. This artist was (*) shot by Valerie Solanas in his studio, the Factory, and painted numerous car crashes in his *Death and Disaster* series. For 10 points, name this pop artist, most famous for his screen prints and painting of Campbell's soup cans. (MR)

ANSWER: Andy Warhola

11. These entities take on a spiny appearance in the disease acanthocytosis. These cells lack a nucleus, and are also called erythrocytes. Approximately one quarter of the cells in an adult human are these cells. They possess a (*) biconcave shape to maximize their surface area to volume ratio, and they get their color from the iron binding protein hemoglobin. For 10 points, name these cells that constitute part of a namesake body fluid. (MR)

ANSWER: red blood cells [or RBC]

12. Emile Waldteufel composed one of these pieces that is still commonly used for on-ice performances. This dance was originally created by German peasants in the 13th century, and several of them appear in *The Nutcracker*, including ones "of the Snowflakes" and "of the (*) Flowers." Other famous examples of this type of dance include the "Minute" one and "The Blue Danube." For 10 points, name this dance in 3/4 time, whose namesake "king" was Johann Strauss. (DD/TR)

ANSWER: waltz [accept valse or walzer]

13. Some practitioners of this religion practice the Ital diet. The practice of "grounding" in this belief system is the creation of new relationships between members, and different branches of this faith are known as mansions. Some practitioners of this religion believe (*) Emperor Haile Selassie is the second coming of Christ, while others believe he is just a prophet. For 10 points, name this religion widely practiced in Jamaica. (MR)

ANSWER: Rastafarianism

14. **The first person to explain the practical uses of this element was French entomologist René Antoine Ferchault de Réaumur. The main ore of this element is the grayish-black hematite, which produces a red streak. The Earth's (*) inner core consists mainly of this element and nickel. This element reacts with oxygen to form rust. For 10 points, name this transition metal with chemical symbol Fe. (MR)**

ANSWER: Iron [accept Fe until mentioned]

15. **This battle was preceded by one side's capture of the Venetian colony of Famagusta. The tide of this battle, which was fought in the Gulf of Patras, changed when a counter-attack led by the Colonna saved the Real and led to the capture of the opposing commander's flagship. Andrea (*) Doria and Miguel Cervantes fought in this battle which saw Don Juan of Austria defeat forces lead by Ali Pasha. For 10 points, name this 1571 combined naval victory for the Holy League against the Ottoman Empire. (RN)**

ANSWER: Battle of Lepanto

16. **This area is home to the largest supply of sodium nitrate in the world, and soil samples from here are similar to ones from Mars. The European Southern Observatory owns and operates a four-part telescope in this area. This desert was the source of conflict for an 1879 to 1883 war in which (*) Peru and Bolivia were defeated by Chile. For 10 points, name this home of the Very Large Telescope, a South American desert that is considered the driest hot desert on Earth. (PB)**

ANSWER: Atacama Desert

17. **This poet says "Christ follows Dionysus" and "His true Penelope was Flaubert" in a poem in which a man "strove to resuscitate the dead art/of poetry". Besides "Hugh Selwyn Mauberley," this poet also wrote a fourteen word poem containing the line (*) "Petals on a wet, black bough." That poem is "In a Station of the Metro." For 10 points, name this American imagist poet of *The Cantos* who was charged with treason for supporting fascism in 1945. (GP)**

ANSWER: Ezra Pound

18. **At a 1982 lecture, this social theorist outlined four "technologies" that humans use to understand themselves. This man used the term "discourse" when describing how social practices contribute to ways of constituting knowledge. The torture of Robert Francois (*) Damiens and the idea that modern institutions resemble Bentham's Panopticon were discussed in a work by this man. For 10 points, name this Frenchman who authored *The History of Sexuality* and *Discipline and Punish*.(TG)**

ANSWER: Michel Foucault

19. **This politician was part of a team of food scientists whose breakthrough led to the production of soft-serve ice cream. This leader's Secretary of Defense, Michael Heseltine, was forced to resign in the Westland Affair, and this leader survived an assassination attempt by (*) Patrick MaGee. This Prime Minister, nicknamed the "Milk Snatcher," came to power during the Winter of Discontent. For 10 points, name this first female British Prime Minister, nicknamed the Iron Lady. (RN)**

ANSWER: Margaret **Thatcher**

20. **One of this thinker's best known works was written as a preface to three essays he had written titled *Meteors*, *Geometry*, and *Dioptrique*. This man argued that one must consider any idea false if there was any trace of doubt and posited that an (*) evil demon deceiving him might prevent ever obtaining certain knowledge. This man reasoned that intellect, not sensory information, allowed one to identify a ball of wax. For 10 points, name this author of *Discourse on Method* who argued "cogito ergo sum." (TG)**

ANSWER: Rene **Descartes** [or **Renatus Cartesius**]

BONUSES

1. This caliphate was the first to control parts of Spain, and was founded by relatives of Uthman. For 10 points each: (AP)

[10] Name this second Islamic caliphate that was founded in 661 by Muawiya I.

ANSWER: **Umayyad** Caliphate

[10] The Umayyad capital was this city in the Levant. This city's "steel" was a reference to the swords that were made or sold here.

ANSWER: **Damascus**

[10] After the Umayyads conquered the Iberian peninsula, their expansion was halted by forces led by Charles Martel in this battle.

ANSWER: Battle of **Tours**

2. Lawrence Colburn, Glenn Andreotta, and Hugh Thompson, Jr. were awarded the Soldier's Medal for their actions during this event. For 10 points each: (RN)

[10] Name this 1968 massacre of hundreds of South Vietnamese civilians by American soldiers in a certain hamlet.

ANSWER: **My Lai** Massacre [accept **Son My** Massacre or **Pinkville** Massacre]

[10] This man, who would later serve as the first African American Secretary of State under George W. Bush, was criticized for refuting the massacre while serving as an army major.

ANSWER: Colin **Powell**

[10] This lieutenant was the only individual convicted for his actions during the My Lai massacre.

ANSWER: William **Calley**

3. For 10 points each, answer the following about the Mighty Five. (RN)

[10] This member of the Mighty Five composed works like the *Golden Cockerel* and included the "Flight of the Bumblebee" in his opera, *The Tale of Tsar Saltan*.

ANSWER: Nikolai **Rimsky Korsakov**

[10] The Mighty Five was led by this man, who composed *Overture on Russian Themes* and music to *King Lear*.

ANSWER: Mily **Balakirev**

[10] The Mighty Five disagreed with this other Russian composer on the influences of Russian classical music. He composed works like *Variations on a Theme by Gluck* and the opera *Eugene Onegin*.

ANSWER: Pyotr Ilyich **Tchaikovsky**

4. Animals in this clade possess vestigial hind limbs, and their closest living relative is the hippopotamus. For 10 points each: (MR)

[10] Name this clade of animals that includes dolphins, whales, and porpoises.

ANSWER: **Cetacea**

[10] Cetacea are divided into Odontoceti, which possess teeth; and Mysticeti, which use this system to filter feed.

ANSWER: **baleen**

[10] This largest toothed whale is the second deepest diving out of all whale species and often eats giant squid.

ANSWER: **sperm** whale

5. This author's most famous work opens with the line, "Call me Ishmael." For 10 points each:

[10] This author of the American Renaissance's lesser-known works include *Whitejacket*, *Redburn*, *Typee* and *Omoo*.

ANSWER: Herman **Melville**

[10] In this short story by Melville, the titular character works on Wall Street with Nippers, Turkey and Ginger Nut, and eventually starves to death while answering questions with only the phrase "I would prefer not to."

ANSWER: "**Bartleby the Scrivener**"

[10] This other Melville short story sees the captain of the whaling ship *Bachelor's Delight* encounter the titular captain of a Spanish slave ship which is adrift.

ANSWER: "**Benito Cereno**"

6. On July 15, 2018, a television series created by the star of *Borat* and the *Dictator* premiered. For 10 points each: (TG)

[10] Name this satirical Showtime series starring Sacha Baron Cohen.

ANSWER: **Who Is America?**

[10] Both Congressman Joe Walsh and this former governor of Alaska were critical of Cohen's methods in getting them to participate in the show, claiming he had posed as a disabled veteran.

ANSWER: Sarah **Palin**

[10] In the first episode of *Who Is America?*, this senator from Vermont, who ran for President in 2016, was Cohen's first interview.

ANSWER: Bernie **Sanders**

7. The deadliest one of these events is believed to have been a 1556 event in Shaanxi, China. For 10 points each: (OK)

[10] Name these natural disasters, which are caused by a release of energy along a fault plane.

ANSWER: **earthquake**

[10] Earthquakes can also have man made causes; perhaps the most prominent modern example comes from this process, in which water is used to break rock in order to more efficiently withdraw oil and natural gas.

ANSWER: **fracking** [or **hydraulic fracturing**]

[10] The most powerful earthquake ever recorded, measured at a 9.5 on the Richter scale, occurred in this country in 1960.

ANSWER: **Chile**

8. For 10 points each, name these award-winning American film directors. (PB)

[10] This Italian-American director was recommended as an honorary Officer in the Order of the British Empire by Winston Churchill. He is known for 1930s and 40s classics like *Mr. Smith Goes to Washington* and *It's a Wonderful Life*.

ANSWER: Frank **Capra**

[10] *Gran Torino*, *The Unforgiven*, and *American Sniper* are among the movies directed by this four-time Academy Award winner.

ANSWER: Clint **Eastwood**

[10] This man is known for directing the *Godfather* trilogy as well as other award-winning films like *Apocalypse Now*. He is one of six people to win Oscars as a producer, director, and screenwriter.

ANSWER: Francis Ford **Coppola**

9. This author of *Betrayed by Rita Hayworth* wrote another work that was made into a movie starring William Hurt as Molina. For 10 points each: (DD)

[10] Name this Argentinian author of *The Kiss of the Spider Woman*.

ANSWER: Manuel **Puig**

[10] This other Argentinian wrote of a portal under a staircase that revealed the entire universe in *The Aleph*.

ANSWER: Jorge Luis **Borges**

[10] Borges also wrote this short story about a Chinese spy who revealed the location of an artillery park by murdering Dr. Albert.

ANSWER: "The **Garden of Forking Paths**"

10. This region is delineated by the Colorado and Barrancas rivers. For 10 points each: (AP)

[10] Name this region which covers the southern portion of South America.

ANSWER: **Patagonia**

[10] Patagonia was named by this explorer, whose namesake strait lies south of the region.

ANSWER: Ferdinand **Magellan**

[10] Patagonia is primarily located within this nation, which claims the nearby Falkland Islands.

ANSWER: **Argentina**

11. Americium-241 undergoes this process in smoke detectors. For 10 points each: (MR)

[10] Name this type of radioactive decay in which an isotope emits a helium nucleus.

ANSWER: **Alpha** decay

[10] Uranium-238 undergoes alpha decay and then this specific type of beta decay to form uranium-234.

ANSWER: Beta **minus** [or beta **negative**]

[10] For uranium-238, this value is 4.5 billion years, while for uranium-235, it is 703.8 million years.

ANSWER: **half-life**

12. One work by this author features Charlotte Heywood and Sidney Parker, although that work was unfinished at her death. For 10 points each: (OK)

[10] This author of *Sanditon* and other unfinished works like *The Watsons* is well-known for completed works like *Pride and Prejudice*.

ANSWER: Jane **Austen**

[10] *Pride and Prejudice* centers on this family. Their eldest daughter, Jane, marries Mr. Bingley, while Elizabeth marries Mr. Darcy.

ANSWER: **Bennet**

[10] This work of Austen's was published posthumously and features Anne Elliot reuniting with Frederick Wentworth.

ANSWER: **Persuasion**

13. When investors engage in trade of an asset at a value much higher than the material or intrinsic worth of the commodity, these economic situations occur. For 10 points each: (TG/TR)
[10] Name this economic phenomena, examples of which include the British “Railway Mania” and a “dot-com” one.

ANSWER: economic **bubbles**

[10] Sir Isaac Newton lost a lot of money due to this bubble that was caused when executives of the namesake company spread rumors inflating the actual worth of the company’s trading rights in South America.

ANSWER: **South Sea** Bubble

[10] The first bubble is usually considered to involve this flower. A single bulb became worth as much as \$10,000 in its 1630s Dutch craze.

ANSWER: Dutch **Tulip** Bulb Mania

14. This artist painted a blue room with yellow furniture in his “Bedroom in Arles.” For 10 points each: (MR)

[10] Name this Dutch artist of *Starry Night*.

ANSWER: Vincent **Van Gogh**

[10] Van Gogh was an influential artist of this movement that included Henri Rousseau and Georges Seurat.

ANSWER: **Post-Impressionism** [Do not accept or prompt on “impressionism”]

[10] Van Gogh often painted these trees that he found in the garden of his asylum window. He also had a period named after this tree.

ANSWER: **Olive** Trees

15. The Mannerheim Line was a defensive fortification during this conflict in which “Molotov cocktails” were first used. For 10 points each: (RN)

[10] Name this 1939-1940 “seasonal” conflict during which the Soviet Union attempted to invade Finland.

ANSWER: **Winter War**

[10] The Winter War resulted in the Soviet Union being expelled from this international organization that preceded the United Nations.

ANSWER: **League of Nations**

[10] Finnish sniper Simo Hayha was given this nickname for registering over 500 kills in the conflict.

ANSWER: **White Death**

16. One reason that two of the major branches of Islam exist is a dispute over how the successor to Muhammad was chosen. For 10 points each: (TG)

[10] This branch of Islam believed that only God could choose the leader of the Muslim faith and that therefore, Ali, a direct descendent of Muhammed, was the rightful heir.

ANSWER: **Shi'a** [accept **Shiites**]

[10] The majority Sunni branch of Islam believed that since Muhammed did not name a successor, this man was rightfully elected as first caliph.

ANSWER: **Abu Bakr** al-Baghdadi

[10] The three main branches of Shia Islam includes Ismailis, Zaidis, and this group that believes that the last Imam will return as the Mahdi and be joined by Jesus to defeat a false Messiah.

ANSWER: **Twelvers** [accept **Imammiyah**]

17. For 10 points each, answer the following about these animals in Egyptian mythology: (TG)

[10] Bastet began as a desert one but ended up as a domesticated one of these creatures. Ra is depicted as a "Great" one of these in the *Book of the Dead* when he defeated Apep.

ANSWER: **Cat**

[10] Wepwawet and Duamutef took this form in Egyptian mythology, but the best known representation of this animal is probably the head of Anubis.

ANSWER: **Jackal**

[10] A scarlet one of these titles a short story by James Hurst about Brother and Doodle. In Egypt, Thoth is depicted with the head of either a baboon or this animal.

ANSWER: **Ibis**

18. Answer these questions about literature relating to the Holocaust, for 10 points each: (OK)

[10] This individual kept a diary while in hiding in Amsterdam; it was published by her father after World War II, after she had died of typhus in Bergen-Belsen.

ANSWER: Anne **Frank**

[10] In this novel by William Styron, it is eventually revealed that the titular figure was forced to decide which of her children would be killed in Auschwitz. It was made into a 1982 film starring Meryl Streep.

ANSWER: **Sophie's Choice**

[10] This work by Elie Wiesel is among the most famous Holocaust narratives. It describes his experiences in Auschwitz and Buchenwald, and is followed by *Dawn* and *Day*.

ANSWER: **Night**

19. On this scale, a value of zero corresponds to maximum acidity, while a fourteen corresponds to maximum alkalinity. For 10 points each: (MR)

[10] Name this scale which measures the acidity or alkalinity of a solution.

ANSWER: **pH**

[10] The pH scale is this type of non-linear scale introduced by John Napier. It is also used for the Richter Scale.

ANSWER: **logarithmic**

[10] This Danish chemist was the first to introduce the pH scale into modern science.

ANSWER: Søren **Sørensen**

20. This woman founded Women2Win to try to increase the number of conservative women in Parliament. For 10 points each: (TG)

[10] Name this current female prime minister of Great Britain.

ANSWER: Theresa **May**

[10] In April 2017, May called a snap election which turned out to be a miscalculation when her party lost their majority, and this opposition party led by Jeremy Corbyn picked up 32 seats.

ANSWER: **Labour** party

[10] May replaced this Prime Minister when he resigned after the Brexit referendum passed in 2016.

ANSWER: David **Cameron**